<u>CLAIMS</u>

- 1. A dental instrument for the extraction of an object from a root canal, comprising a shaft (1) having an open-end part (3) designed to receive at least a part of object (9), this open-end part (3) able to be deformed to permit seizing object (9) by clamping and then extracting it from the root canal, characterized in that the open-end part (3) is tubular and is able to plastically deform, so that it leads to a reduction of its inner section, under the effect of a given stress.
- 2. The dental instrument according to claim 1, further characterized in that the given stress is a twist.
- 3. The dental instrument according to claim 2, further characterized in that the wall of open-end part (3) has at least one deformation opening (6) in a specific zone, constituting a weakened zone (5), designed to undergo plastic deformation.
- 4. The dental instrument according to claim 3, further characterized in that the deformation opening or openings (6) is (are) traversing.
- 5. The dental instrument according to claim 3 or 4, further characterized in that the wall of open-end part (3) in the given zone has deformation openings (6) inclined 45° relative to axis (7) of shaft (1).
- 6. The dental instrument according to claim 5, further characterized in that the wall of open-end part (3) in the given zone has three series of three deformation openings (6) uniformly distributed along the periphery of open-end part (3), inclined 45° relative to axis (7) of shaft (1).

- 7. The dental instrument according to claim 3 or 4, further characterized in that the wall of the open-end part in the given zone has deformation openings (6a-6e) parallel to the axis of the shaft
- 8. The dental instrument according to claim 3 or 4, further characterized in that the wall of the open-end part in the given zone has deformation holes (6f-6h) arranged in a staggered manner.
- 9. The dental instrument according to claim 2, further characterized in that the wall of the open-end part comprises a zone (5a, 5b) of reduced thickness relative to the rest of the shaft, this zone (5a, 5b) constituting a weakened zone designed to undergo plastic deformation.
- 10. The dental instrument according to claim 2, further characterized in that the open-end part comprises a zone (5c) made of a material that is less hard than the material of which the rest of the shaft is made, this zone (5c) constituting a weakened zone designed to undergo plastic deformation.
- 11. The dental instrument according to claim 2, further characterized in that the open-end part comprises a thermally pretreated zone to render it less strong than the rest of the shaft, this zone constituting a weakened zone designed to undergo plastic deformation.
- 12. The dental instrument according to any one of claims 2 to 11, further characterized in that it comprises means (8) to block open-end part (3) from rotating in the dentin, at least in the direction of the twist, during the application of the twist.

- 13. The dental instrument according to claim 12, further characterized in that said blocking means comprise teeth (8) situated on the frontal face (4) of said open-end part (3).
- 14. The dental instrument according to claim 12, further characterized in that said blocking means comprise a portion of the inner surface of the open-end part, this portion of the inner surface having a conical shape (51d) flared toward the opening of the open-end part so as to be able to become wedged around one end of the object.
- 15. The dental instrument according to claim 1, further characterized in that the given stress is an axial pressure.
- 16. The dental instrument according to claim 15, further characterized in that the open-end part comprises a zone (5e) with a zigzag-shaped wall.
- 17. The dental instrument according to any one of claims 1 to 16, further characterized in that it has teeth (8) situated on frontal face (4) of open-end part (3), around the opening of open-end part (3), that can be used to dig into the dentin.
- 18. The dental instrument according to any one of claims 1 to 17, further characterized in that it also has a handle (2).